Abstract of the Disclosure

Liquid aluminum is sprayed onto an iron article to produce a thin tenacious non-corrodible layer. In one embodiment, an iron article is heated to at least 400°F or preferably until cherry red. It is sprayed with a fine aluminum mist generated by heating aluminum in a container and then passing a gas under pressure through the container and out through a heat resistant ceramic nozzle. In another embodiment, aluminum is heated to at least 2000°F in a container to produce a pool of liquid aluminum. Pressure is applied to the container to project the liquid aluminum in the form of a fine mist through a ceramic nozzle onto the iron article. The aluminum mist produces a tenacious aluminum layer on the iron article that is workable, weldable and non-corrodible. The aluminum layer is a permanent part of the iron article and cannot be removed by conventional means, such as buffing with a wire wheel driven by a electric motor.